

## Mark schemes

**Q1.**

16

B1

[1]

**Q2.**

$\frac{1}{2}$

B1

[1]

**Q3.**

2

B1

[1]

**Q4.**

(a) Circle drawn, centre (0, 0), radius 4

B1

(b)  $x^2 + y^2 = 16$  or  $x^2 + y^2 = 4^2$

oe

B1

[2]

**Q5.**

(a)  $x^2 + y^2 = 9$

B1

(b) (-3, 4)

B1

(c) T  
T F

*B1 for 2 correct and 1 incorrect or incomplete*

B2

[4]